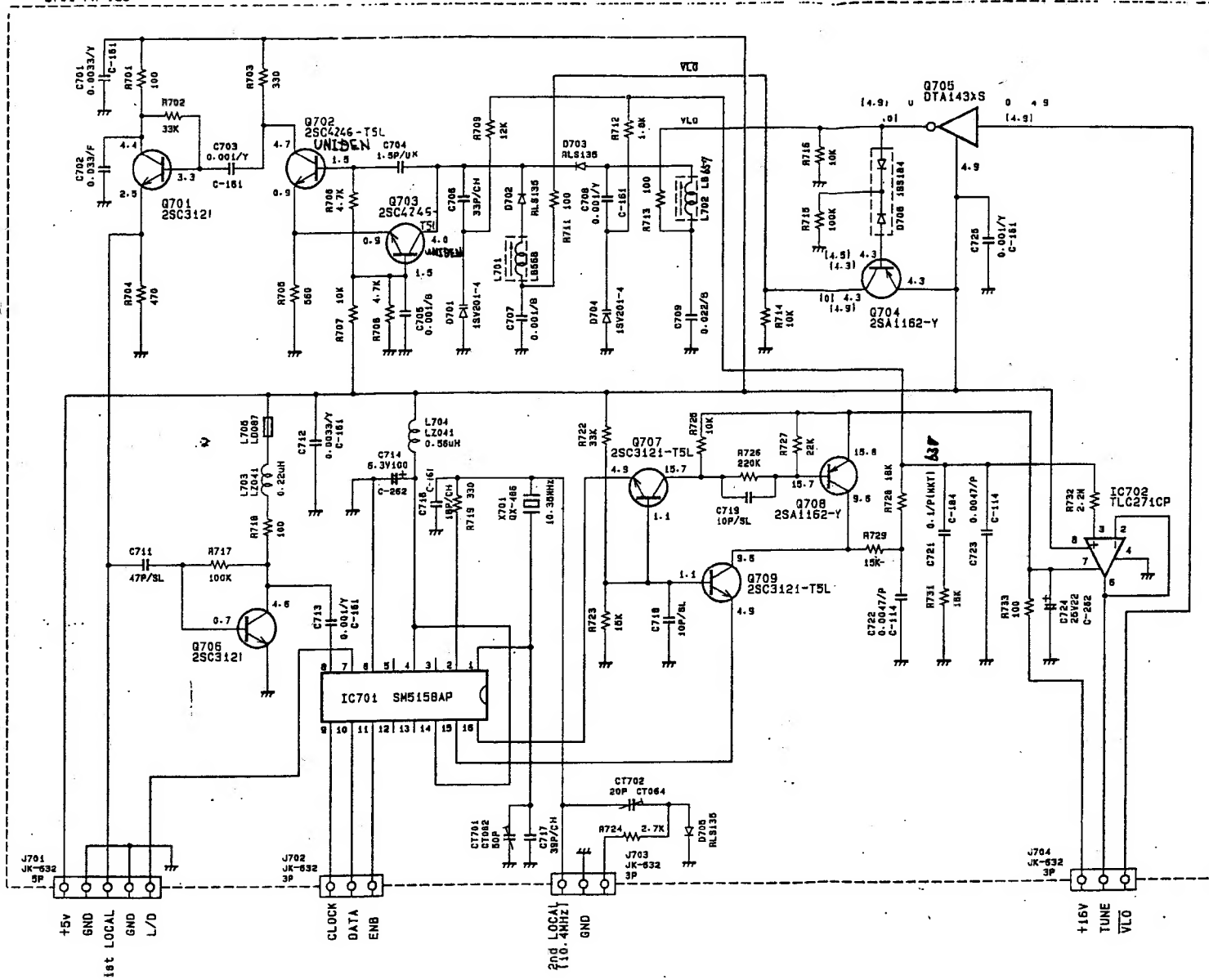


## NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM. M=MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. CHIP PARTS ARE NOT SPECIFIED IN THIS SCHEMATIC DIAGRAM. PLEASE REFER TO THE PARTS LIST FOR THE CHIP PARTS.
5. VOLTAGE IN / / SHOWS 800MHZ BAND CONDITION.

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
77.8.21	77.8.21	UB-238 C4D	AE105H
CHECK BY	APPRO. BY	TITLE 800MHZ SCHEMATIC DIAGRAM	
REV. NO.		DRAWING NO. E14-5270	
		UNIDEN PHILS. INC.	

8701 PH-129

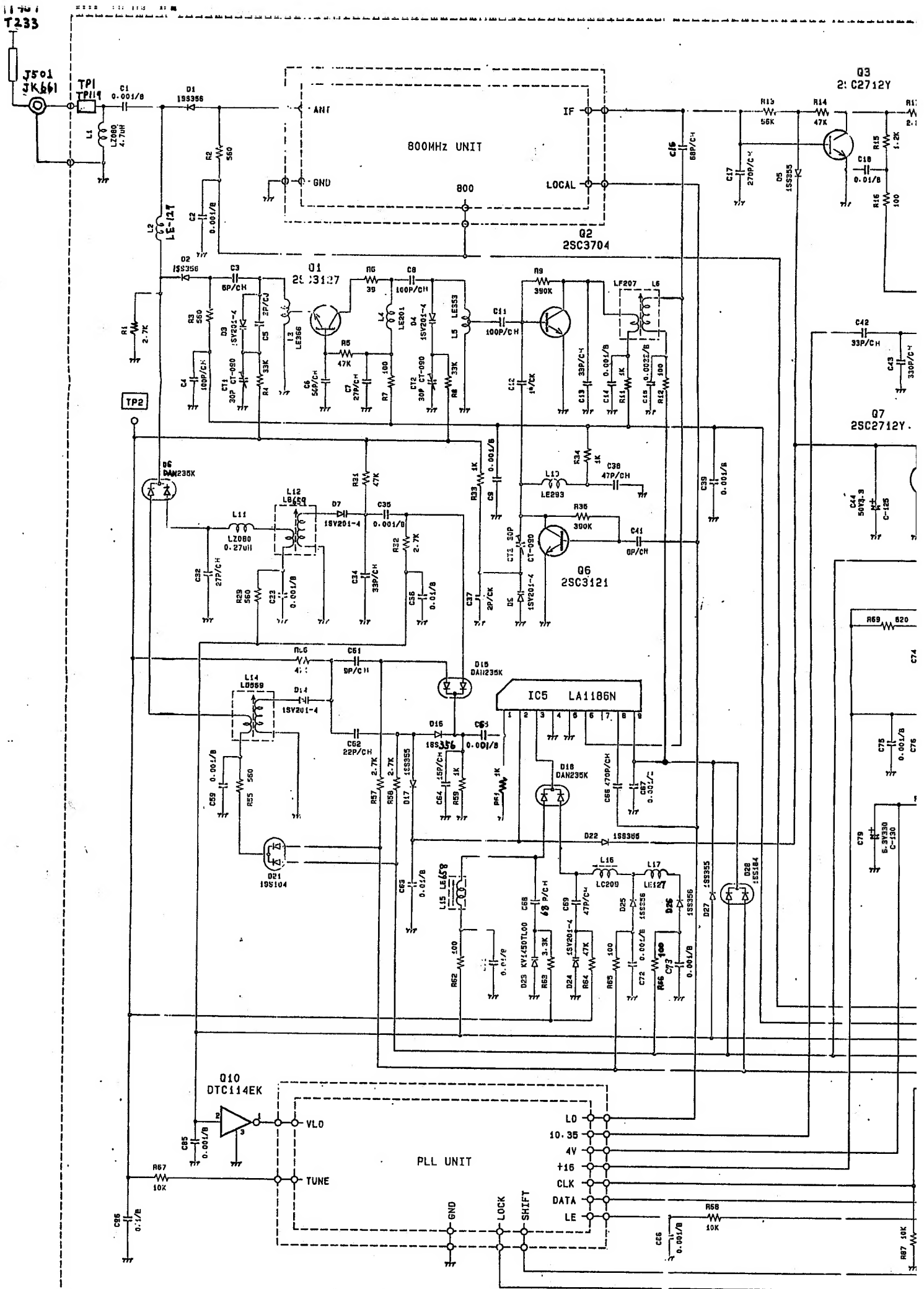


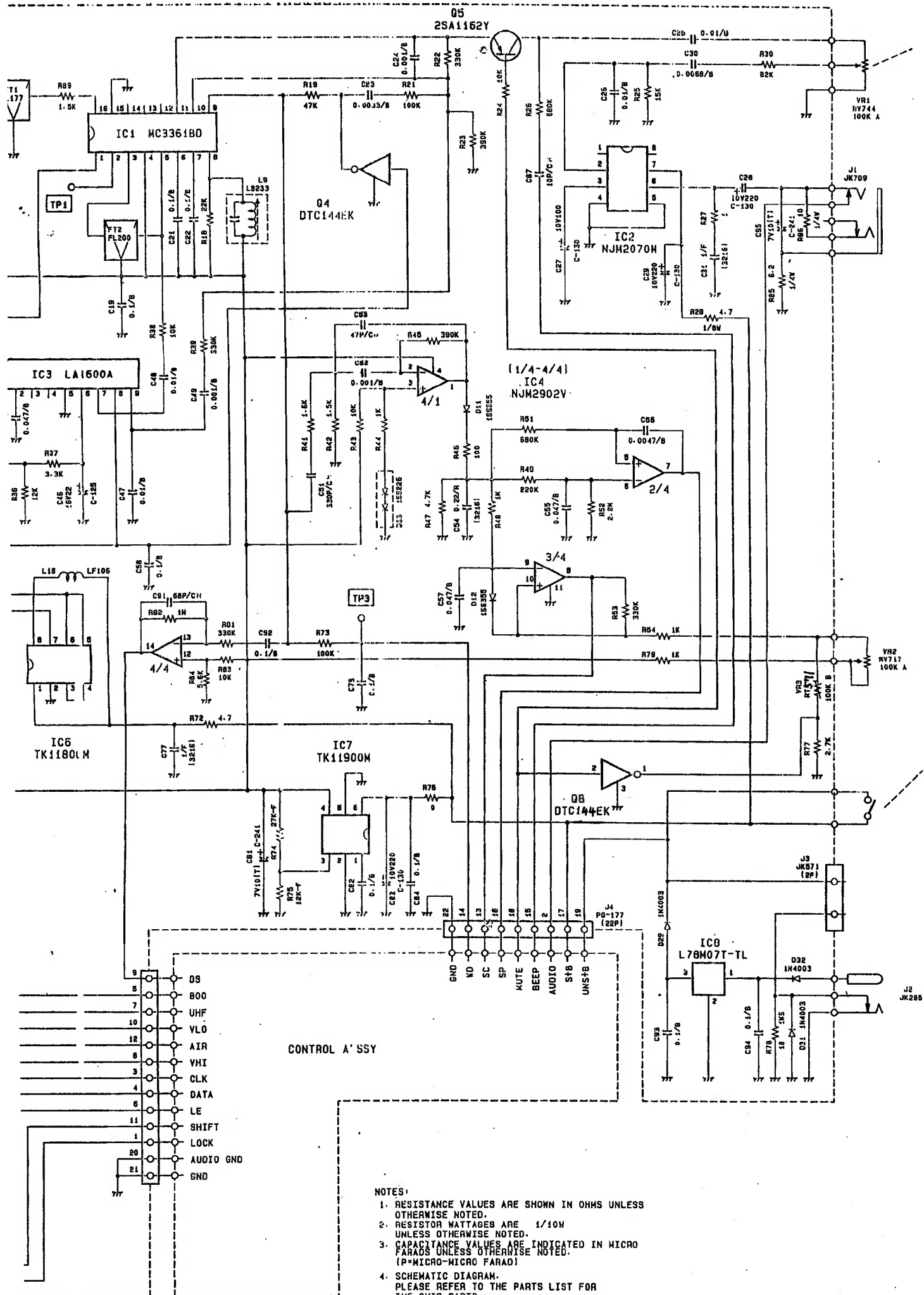
## NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K=KILO OHM, M=MEG OHM)
2. RESISTOR MATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)
4. CHIP PARTS ARE NOT SPECIFIED IN THIS SCHEMATIC DIAGRAM PLEASE REFER TO THE PARTS LIST FOR THE CHIP PARTS.
5. VOLTAGE IN ( ) SHOWS UHF BAND CONDITION.
6. VOLTAGE IN [ ] SHOWS VHF LOW BAND CONDITION.
7. VOLTAGE IN NO MARK SHOWS VHF HIGH BAND CONDITION.

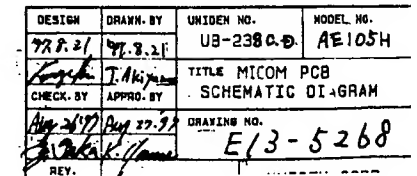
DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
97.8.21	97.8.21	UB-238C.8	AE 105H
CHECK BY	APPRO. BY	TITLE PLL PCB SCHEMATIC DIAGRAM	
97.8.21	97.8.21	DRAWING NO. E13-5269	
REV. NO.		UNIDEN CORP.	

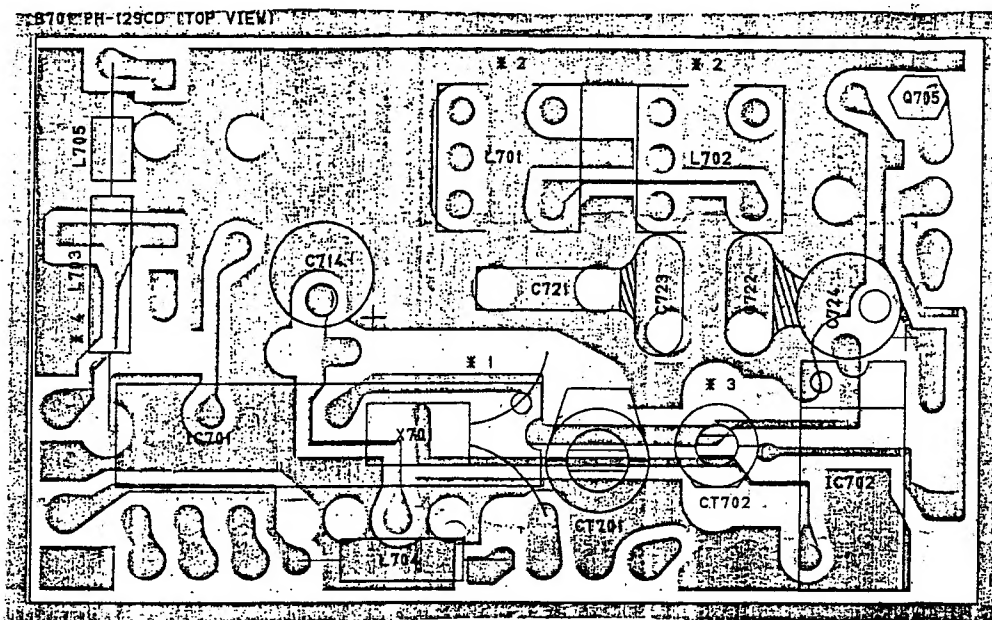
T233



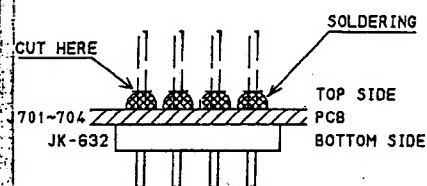


- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
  2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
  3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.  
(P=MICRO-MICRO FARAD)
  4. SCHEMATIC DIAGRAM.  
PLEASE REFER TO THE PARTS LIST FOR THE CHIP PARTS.



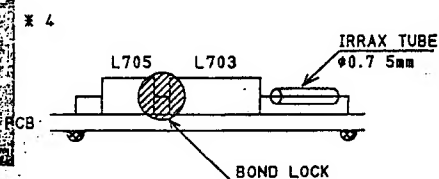


● BOND LOCK



NOTE:

- NO NEED TO CUT IF USING JK-632
- NEED TO CUT IF USING JK-039 (SUBSTITUTE)

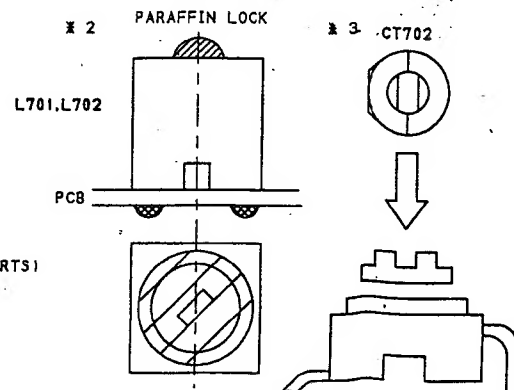
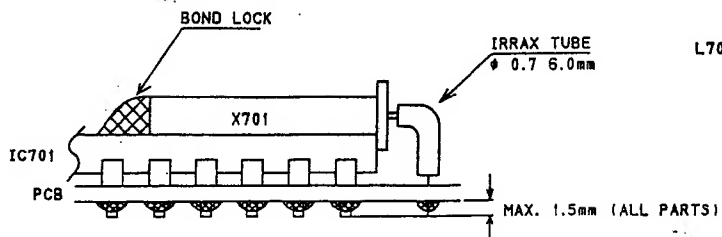


C714	6.3V100	C-262
C721	0.1/PINX1	C-184
C722	0.0047/P	C-114
C723	0.0047/P	C-114
C724	25V22	C-262

CT701	CT-082	50pF
CT702	CT-064	20pF

L701	LB-568
L702	LB-657
L703	LZ-041 0.22uH
L704	LZ-041 0.56uH
L705	LD-087

X701	QX-486
	10.35MHZ
IC701	SMS158AP
IC702	TLC271CP
Q705	DTA143XS

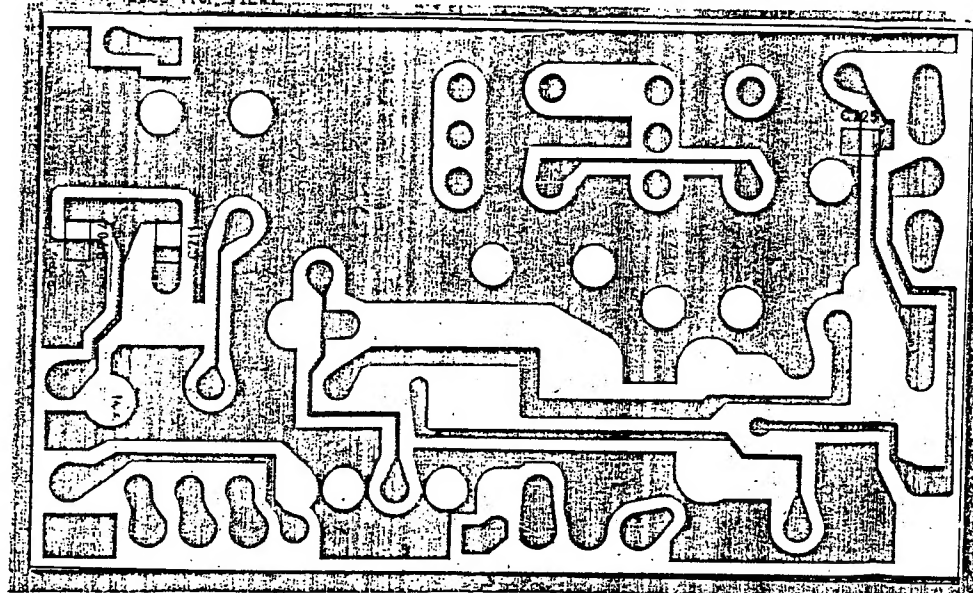


NOTE:

- 1. CAPACITANCE VALUES ARE INDICATED IN MICROFARADS UNLESS OTHERWISE NOTED.
- (P=MICRO-MICRO FARAD)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
77.8.4	77.8.21	UB-23C, B	AE105H
CHECK BY	APPRO. BY	TITLE	PLL PCB
		PARTS ASS'Y TOP VIEW	
		DRAWING NO.	E23-14955
REV. NO.			UNIDEN PHILS. INC.

8701 PH-129CD (TOP VIEW)



C711	47P/SL
C725	0.001/YC-161
R704	470

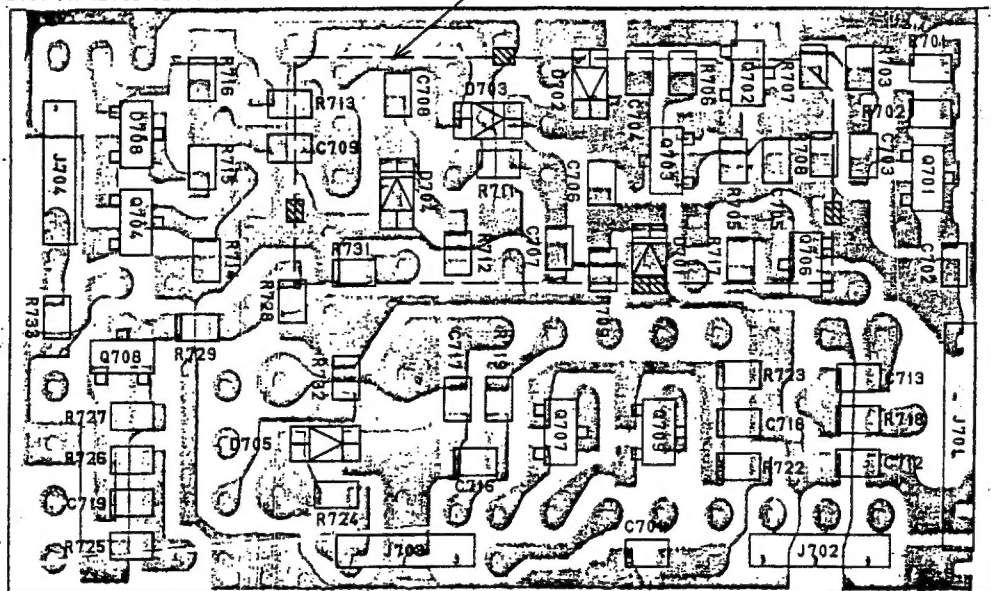
# NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K-KILO OHM, M-MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
77.8.21	77.8.21	UB-238C.D	AE105H
TITLE		PLL PCB	
CHECK BY		PARTS ASS'Y TOP VIEW CHIP	
DRAWING NO.		E23-14956	

B701 PH-129CD (BOTTOM VIEW)

SHIELD PLATE  
HSDP423227Z



C701	0.0033/Y C-161
C702	0.033/F
C703	0.001/Y C-161
C704	1.5P/UK
C705	0.001/B
C706	33P/CH
C707	0.001/B
C708	0.001/Y C-161
C709	0.022/B
C712	0.0033/Y C-161
C713	0.001/Y C-161
C716	18P/CH C-161
C717	39P/CH
C718	10P/SL
C719	10P/SL

D701	1SV201-4
D702	RLS135
D703	RLS135
D704	1SV201-4
D705	RLS135
D708	1SS184

R701	100
R702	33K
R703	330
R705	560
R706	4.7K
R707	10K
R708	4.7K
R709	12K
R711	100
R712	1.8K
R713	100
R714	10K
R715	100K
R716	10K
R717	100K
R718	100
R719	330
R722	33K
R723	15K
R724	2.7K
R725	10K
R726	220K
R727	22K
R728	18K

R729	15K
R731	18K
R732	2.2M
R733	100

J701	JK-632 (5P)
J702	JK-632 (3P)
J703	JK-632 (3P)
J704	JK-632 (3P)

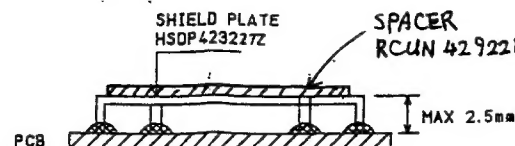
Q701	2SC3121
Q702	2SC4246 - TSL
Q703	2SC4246 - TSL
Q704	2SA1162Y
Q706	2SC3121
Q707	2SC3121TSL
Q708	2SA1162Y
Q709	2SC3121TSL

# NOTES:

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED. (K-KILO OHM, M-MEG OHM)
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=MICRO-MICRO FARAD)

—SOLDERING

1.1



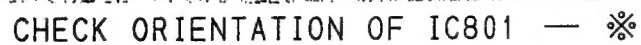
- 2.1 SPRAY THE SURFACE OF THE BOTTOM SIDE OF THE PLL PCB WITH THE ELECTRICAL PROTECTOR. (1#2901 THREE-BOND)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
97.8.21	97.8.21	UB-238C, D	AE10SH
97.8.21	97.8.21	TITLE	PLL PCB
CHECK BY	APPRO BY	PARTS ASSY	BOTTOM VIEW
97.8.21	97.8.21	DRAWING NO.	E23-14957
REV. NO.		UNIDEN PHILS. INC.	

97.8.21  
Fahai



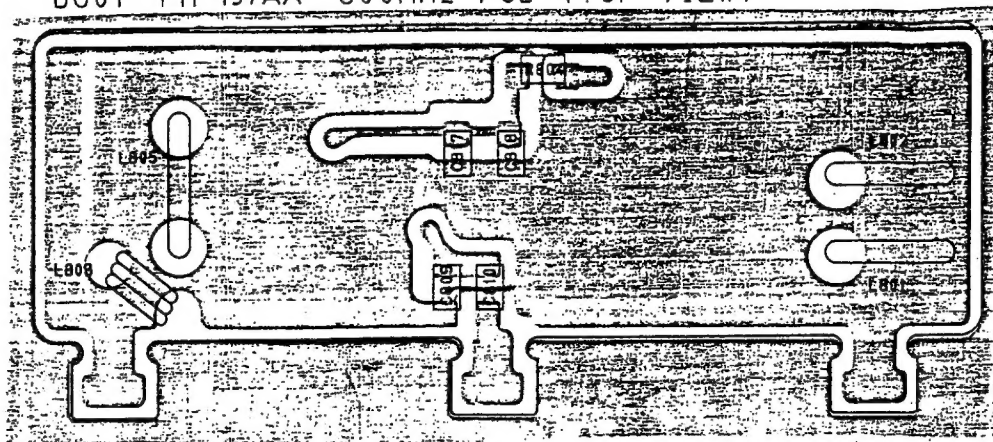
B801

[illegible]

1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.  
(P=MICRO-MICRO FARAD)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
92.2.21	92.2.21	UB-23860	AE105H
Long	T. A. Jones	TITLE 800MHz PCB	
CHECK BY	APP'N BY	PARTS ASS'Y BOT VIEW	
92.2.21	92.2.21	DRAWING NO.	
92.2.21	92.2.21	E23-14959	
REV.	NO.	UNIDEN PHILS. INC.	

B801 PH-197AA 800MHz PCB (TOP VIEW)

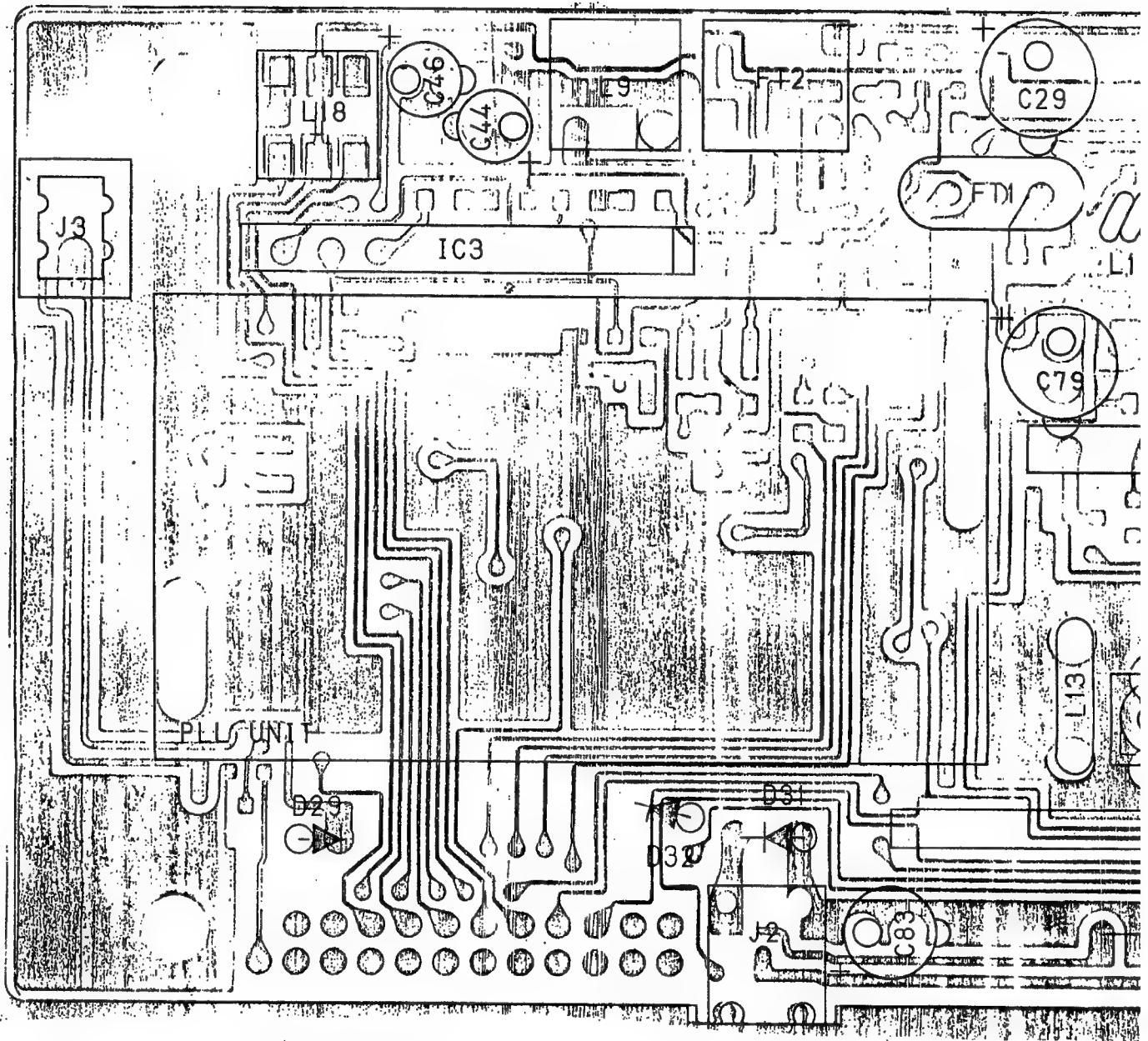
[illegible]

**NOTES:**

- NOTES:
1. RESISTANCE VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
  2. RESISTOR WATTAGES ARE 1/10W UNLESS OTHERWISE NOTED.
  3. CAPACITANCE VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED.  
(P=MICRO-MICRO FARAD)

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
92.5.24	97.8.24	UB-238 CD	AE105P1
LONG	P. K. K.	TITLE	800MHZ PCB
CHECK BY	APPROV BY	PARTS ASS'Y TOP VIEW	
92.5.27	97.8.27	DRAWING NO.	E23-14258
REV. NO.	UNIDEN PHILS. INC.		

PH-173AC 1/2 (TOP VIEW)



TERMINAL ANT.

CHASSIS

SOLDERING

TP1

J501

R78

C27

C28

C29

C44

C46

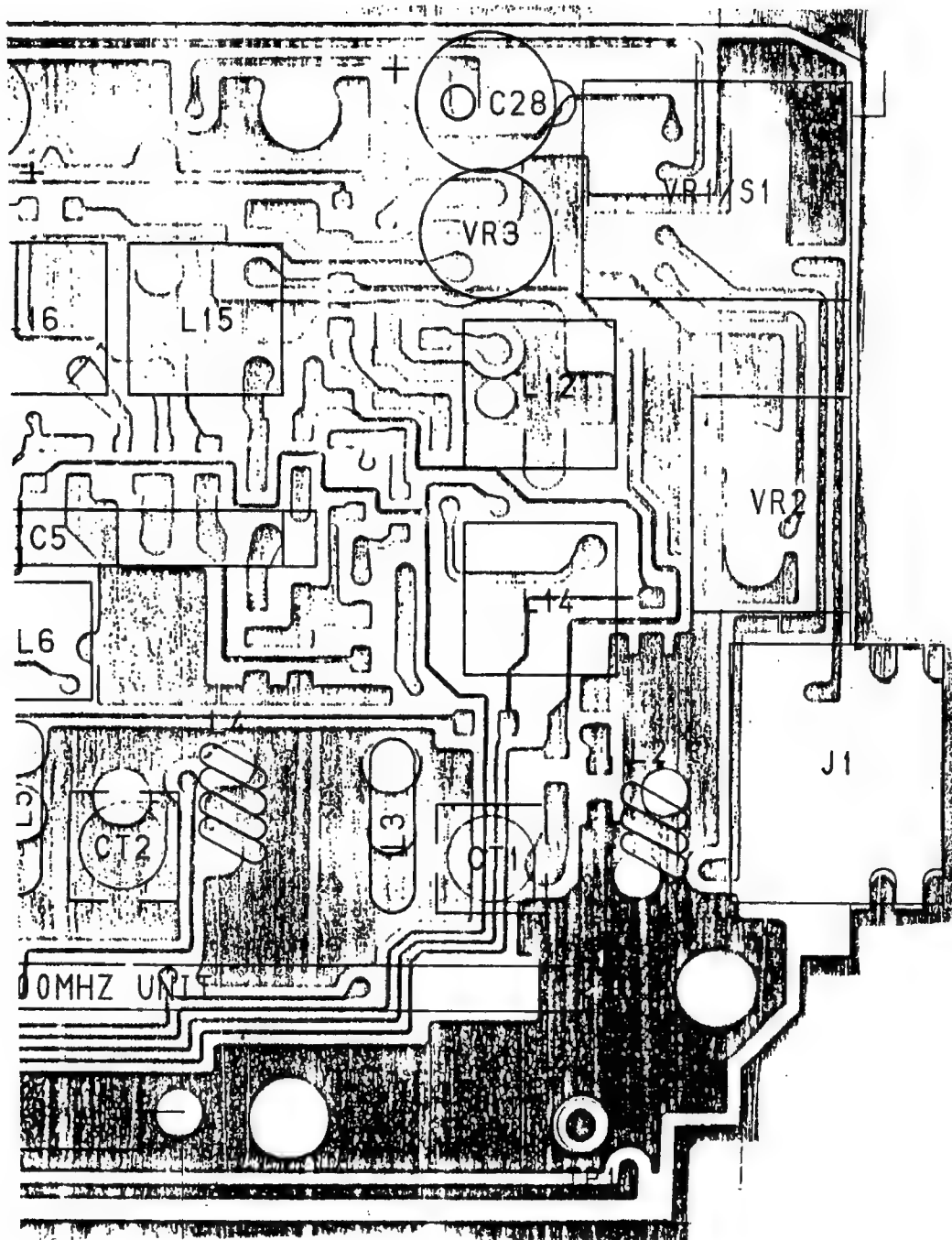
C79

C83

CT1

CT2

CT3

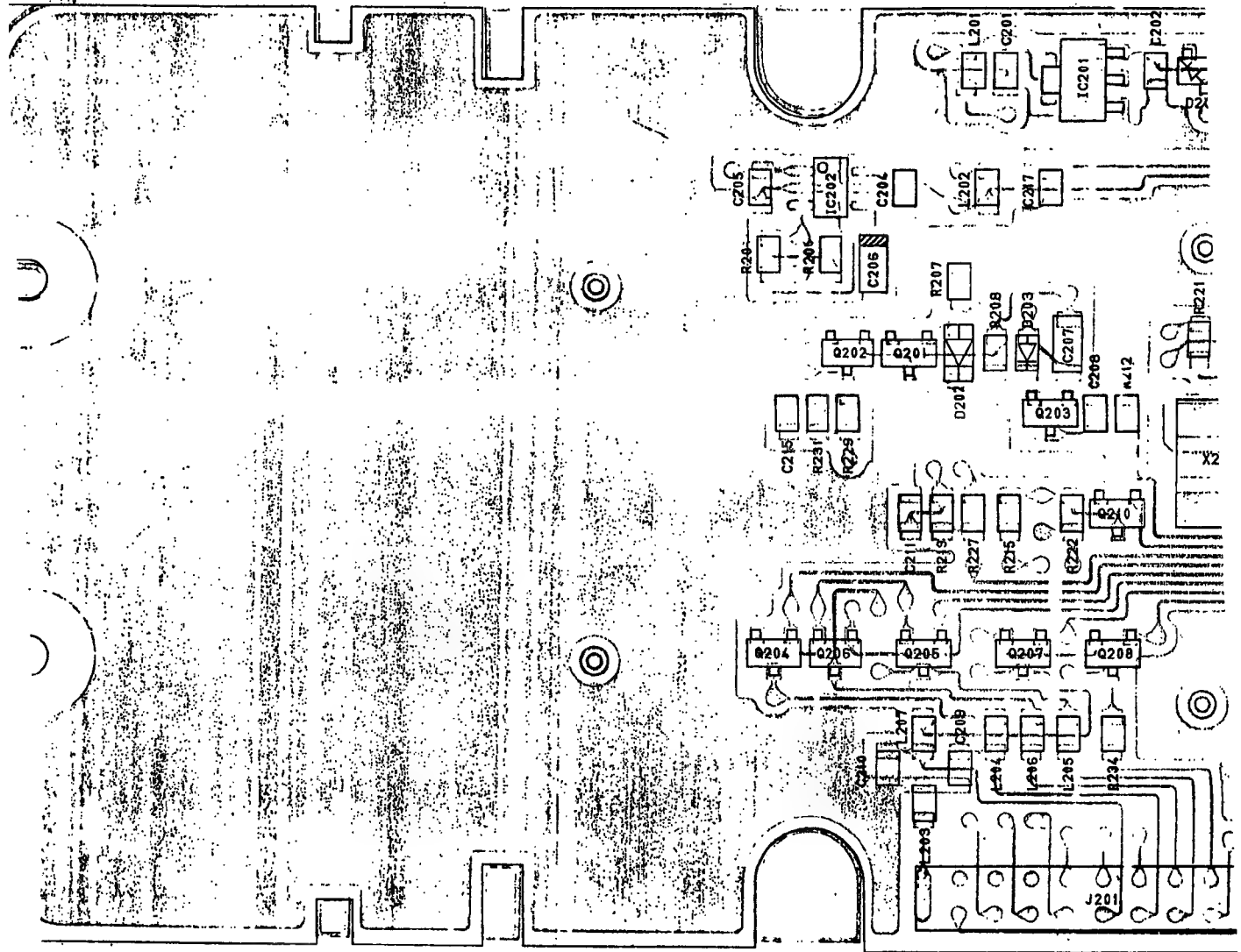


	D29	1N4003	IC3	LA1600A	FT1	FL-177
	D31	1N4003	IC5	LA1186N	FT2	FL-200
	D32	1N4003				
30	L2	LE-127 2 1/2T	J1	JK-789		
30	L3	LE-366 1/2T	J2	JK-285		
30	L4	LE-201 3 1/2T	J3	JK-571 2P		
25	L5	LE-353 1/2T				
25	L6	LF-207				
10	L9	LB-233				
30	L12	LB-659			TP1	TP-117
	L13	LE-293 1/2T	VR1	RV-744 100KA		
	L14	LB-569	VR2	RV-717 100KA		
	L15	LB-658	VR3	RV-571 100KB		
	L16	LC-209				
	L17	LE-127 2 1/2T				
	L18	LF-106				

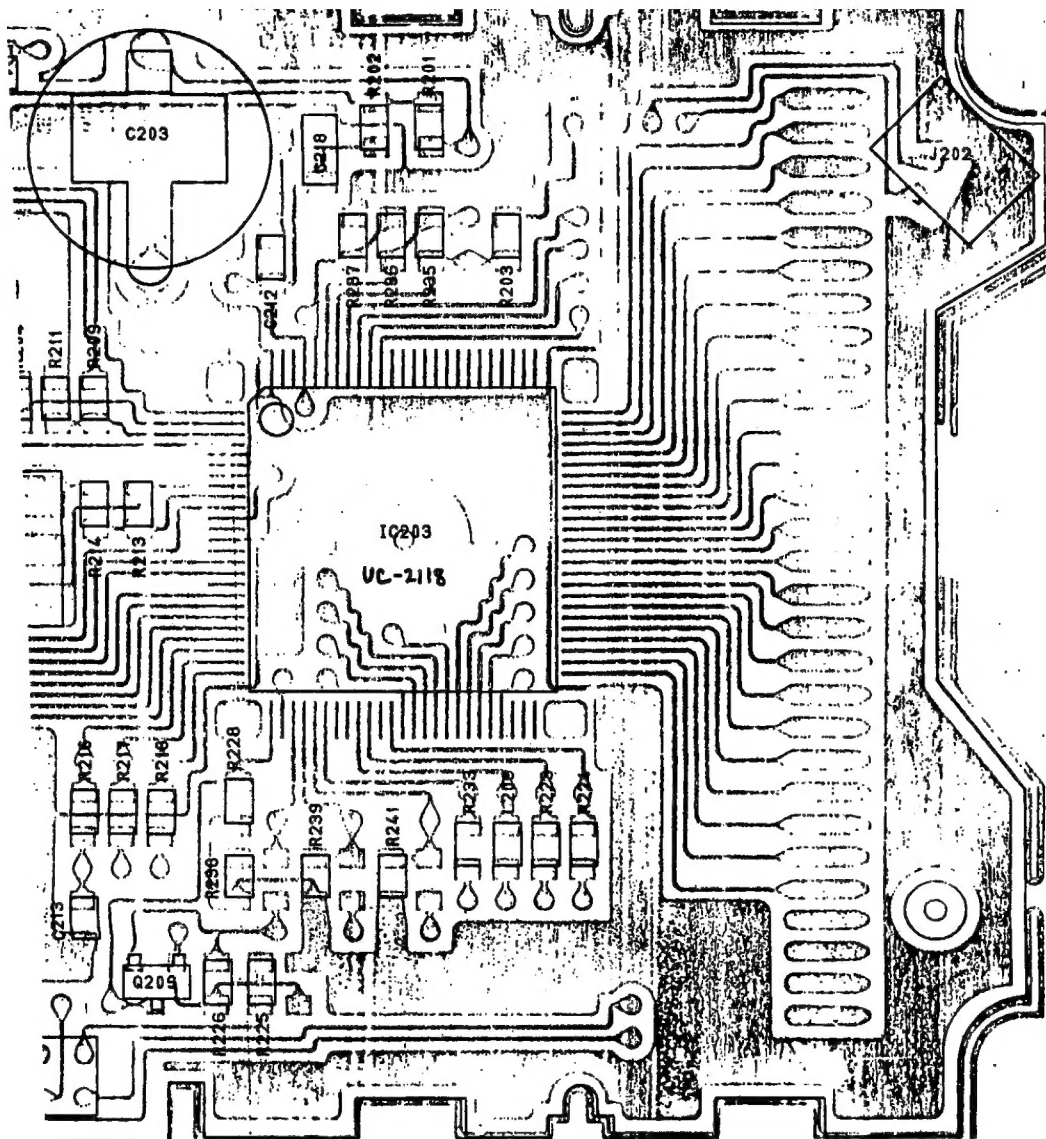
# NOTES:

1. RESISTOR VALUES ARE SHOWN IN OHMS UNLESS OTHERWISE NOTED.
2. RESISTOR ATTACHES ARE 1/16" UNLESS OTHERWISE NOTED.
3. CAPACITOR VALUES ARE INDICATED IN MICRO FARADS UNLESS OTHERWISE NOTED. (P=PICO-MICRO FARAD)
4. ALL CAPACITORS TEMPERATURE CHARACTERISTICS ARE SL (LESS THAN 1000PF) UNLESS OTHERWISE NOTED.

DESIGN	DRAWN BY	UNIDEN NO.	MODEL NO.
77.8.21	77.8.21	UB-238C/D	AE105H
<i>[Signature]</i>	<i>T. A. [Signature]</i>	TITLE MAIN PCB	
CHECK BY	APPROV BY	PARTS ASS'Y TOP VIEW	
Aug 26 97	Aug 27 97	DRAWING NO.	
<i>[Signature]</i>	<i>[Signature]</i>	E 22 - 14950	
REV. NO.			UNIDEN PHILS. INC.



R201	47	R223	
R202	10	R224	
R203	10K	R225	
R204	1K	R226	
R205	27K-F	R227	
R206	12K-F	R228	
R207	1K	R229	
R208	10K	R231	
R209	22K-F	R233	
R211	10K-F	R234	
R212	100K	R235	
R213	1M	R236	
R214	5.6K	R237	
R215	180	R238	
R216	1K	R239	
R217	1K	R241	
R218	1K		
R219	1K		
R221	1K		
R222	180		



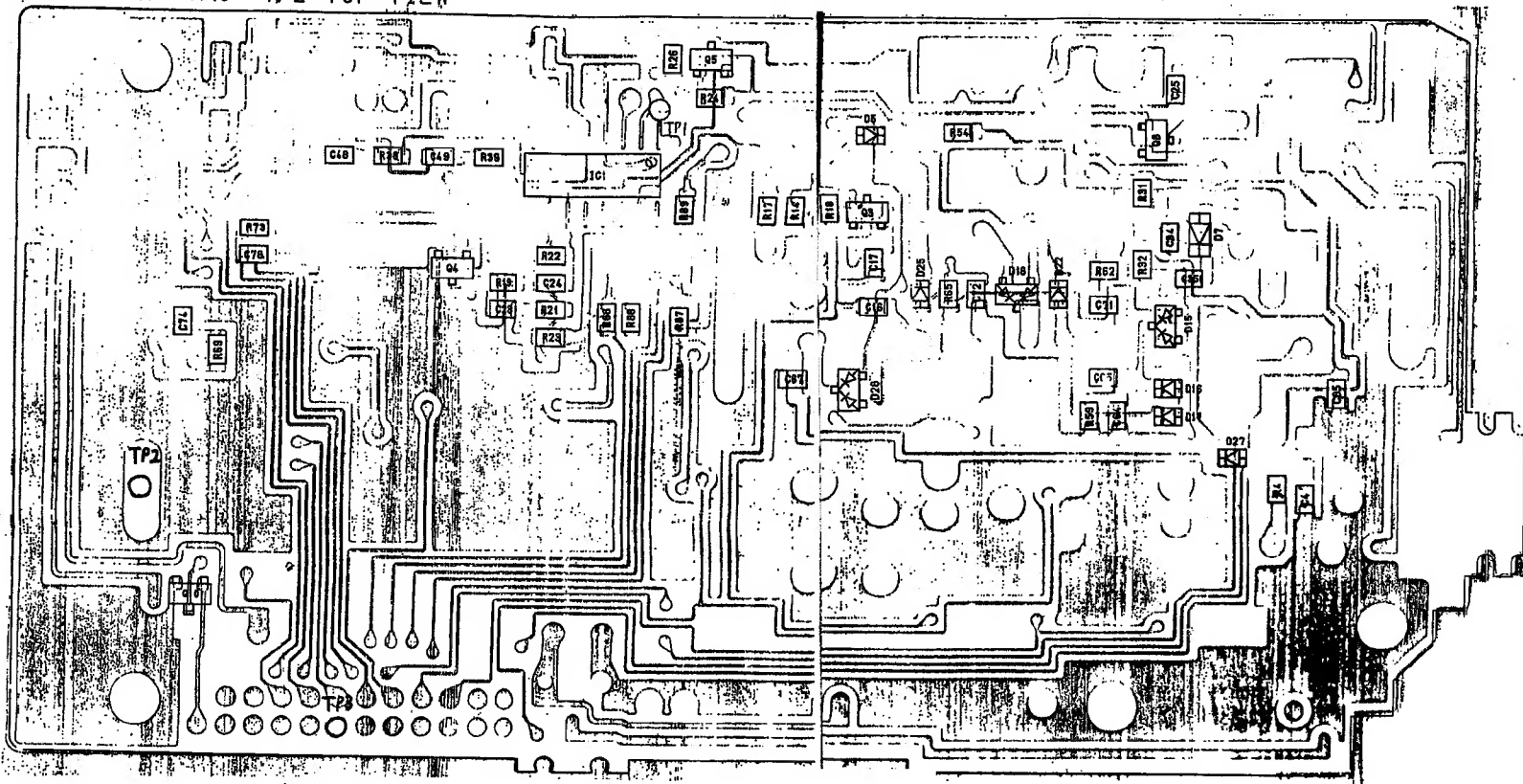
3K
OK
K
K
K
OK
K
C
C
3K
OK
OK

C201	0.22/F
C202	0.22/F
C203	5.5V0.047 0266
C204	0.22/F
C205	0.1/B
C206	7V10(T) C-24
C207	1/F 1/2 3/4
C208	0.047/B
C209	0.001/B
C210	0.1/B
C211	0.001/B
C212	0.001/B
C213	0.001/B
C215	0.001/B
C217	0.22/F
C218	1/F 1/2 3/4

L201	LZ-087 1.8uH
L202	LZ-087 1.8uH
L203	LZ-080 4.7uH
L204	LZ-080 4.7uH
L205	LZ-080 4.7uH
L206	LZ-080 4.7uH
L207	LZ-080 4.7uH
L209	LZ-080 4.7uH
IC201	RH5RL43AA
IC202	TK11900H
IC203	UC-2118
J201	PG-172 22P
J202	JK-797 2P

Q201	DTC114EK
Q202	DTA114YK
Q203	DTA114YK
Q204	DTA114YK
Q205	DTA114YK
Q206	DTA114YK
Q207	DTA114YK
Q208	DTA114YK
Q209	2SA1162Y
Q210	DTC114EK
D201	ISS366TB
D202	HZK2BLL TR
D203	ISS355
X201	FK-056
	2MHZ

B001  
PH-173AC 1/2 TOP VIEW



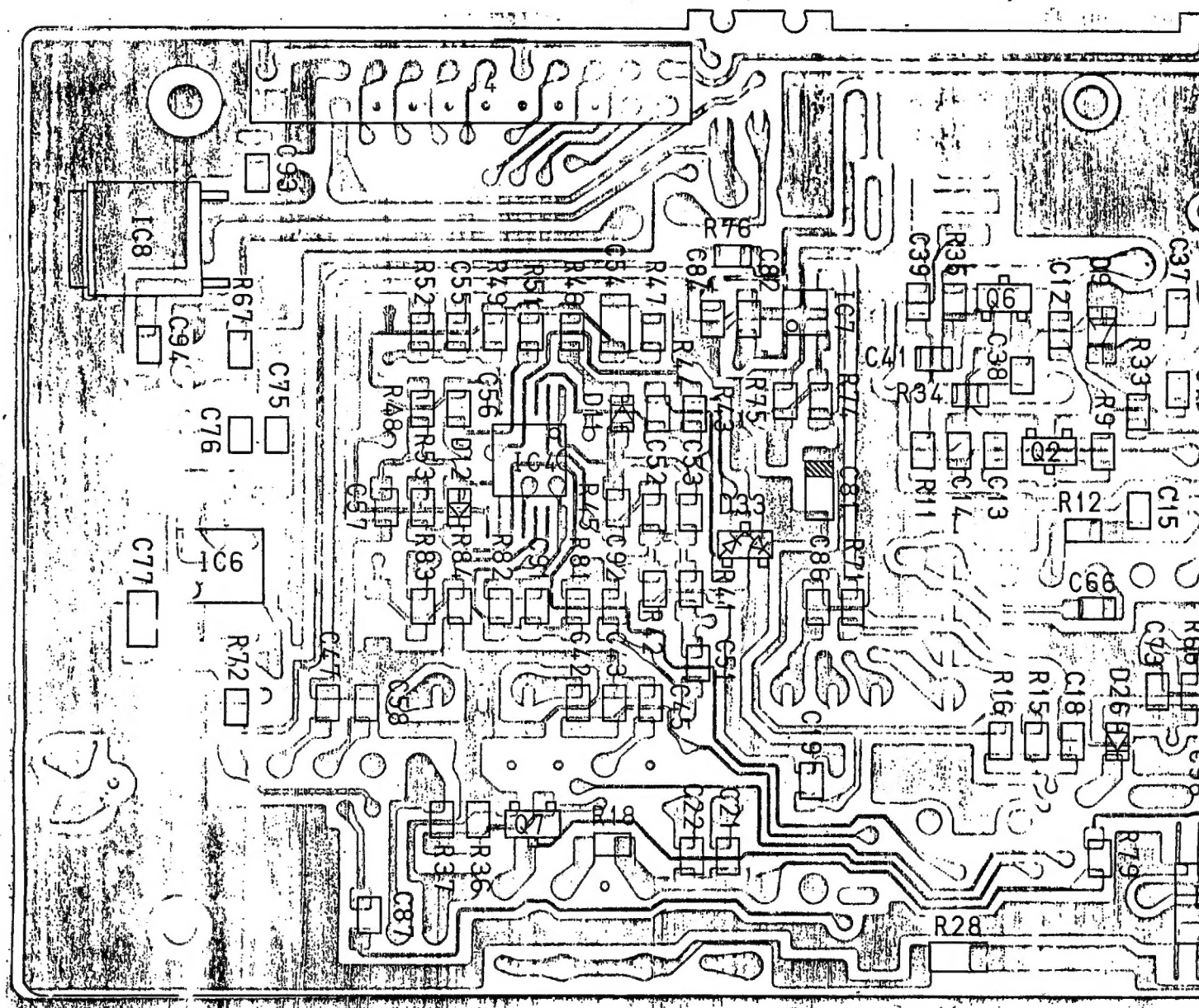
R4	39K	R73	100K	C4	100P/C11	D6	1S3955	Q3	25C2712Y
R13	56K	R87	10K	C16	68P/CH	D7	1SV201-4	Q4	DTCA44EX
R14	47K	R86	10K	C17	270P/C11	D15	DAW235K	Q5	25A1162Y
R17	2.2K	R89	1.5K	C23	0.3035/B	D16	1S3956	Q6	DTCA44EX
R18	47K			C24	0.301/B	D17	1S3955	Q10	DTCA14EX
R21	100K			C25	0.01/B	D18	DAW235K		
R22	330K			C34	33P/CH	D22	1S3955		
R23	390K			C35	0.001/B	D25	1S3956		
R24	10K			C48	0.01/B	D27	1S3955		
R26	560K			C49	0.001/B	D28	1S3184		
R31	47K			C54	15P/CH				
R32	2.7K			C65	0.001/B				
R36	10K			C67	0.001/B				
R39	330K			C71	0.01/B				
R54	1K			C72	0.301/B				
R59	1K			C74	0.22/F				
R82	100			C78	0.1/B				
R85	100			C85	0.001/B				
R88	10K								
R89	820								



B001

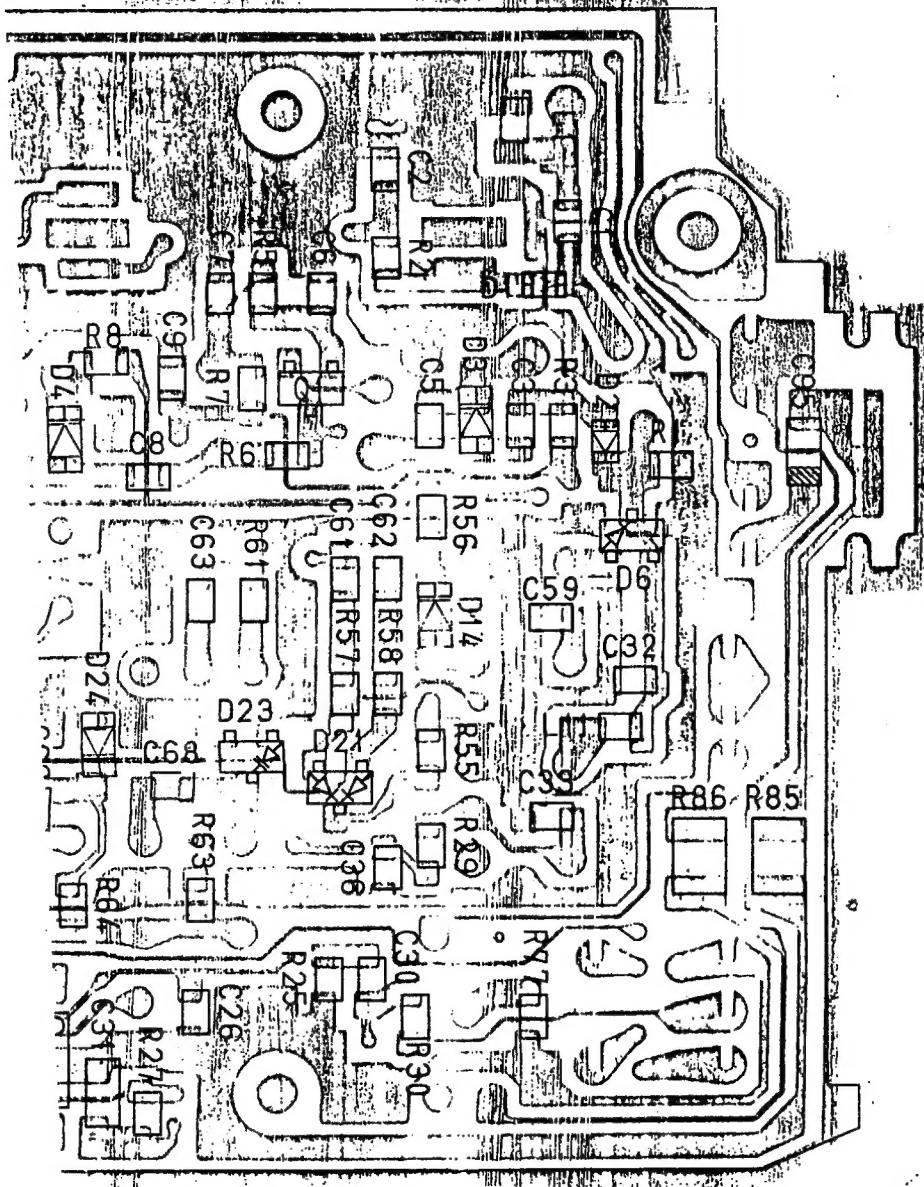
PH-173AC

1/2 BOT VIEW

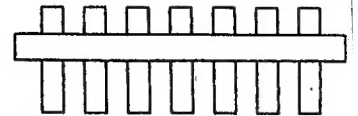


R1	2.7K	R28	4.7 1/8W	R48	1M	R72	4.7	C1	0.001/B	C21	0.1/B
R2	560	R29	560	R49	220K	R74	27K-F	C2	0.001/B	C22	0.1/U
R3	560	R30	82K	R51	680K	R75	12K-F	C3	5P/CH	C26	0.01/B
R5	47K	R33	1K	R52	2.2M	R76	0	C5	3P/CJ	C30	0.0068/B
R6	39	R34	1K	R53	330K	R77	2.7K	C6	56P/CH	C31	1/F (3216)
R7	100	R35	390K	R55	560	R79	1K	C7	27P/CH	C32	27P/CH
R8	33K	R36	12K	R56	47K	R81	330K	C8	100P/CH	C33	0.001/B
R9	390K	R37	3.3K	R57	2.7K	R82	1M	C9	0.001/B	C36	0.01/B
R11	1K	R41	1.0K	R58	2.7K	R83	10K	C11	100P/CH	C37	2P/C/K
R12	100	R42	1.5K	R61	1K	R84	5.6K	C12	1P/CK	C38	47P/CH
R13	1.2K	R43	10K	R63	3.3K	R85	8.2 1/4W	C13	33P/CH	C39	0.001/B
R15	10	R44	1K	R64	47K	R86	10 1/4W	C14	0.001/B	C41	8P/CH
R16	22	R45	390K	R66	100			C15	0.0033/B	C42	33P/CH
R2	15K	R46	100	R67	10K			C18	0.01/B	C43	330P/CH
R27	1	R47	4.7K	R71	10			C19	0.1/B	C45	0.047/B





SHORTER LEG SHOULD  
BE INSERTED TO PCB



L1	LZ-080	J4	PG-177 22P
	4.7uH		
L11	LZ-080		
	0.27uH		
IC2	NJM2070M		
IC4	NJM2902V		
IC6	TK11806M		
IC7	TK11900M		
IC8	L78M07T-TL		

0.01/B	C68	68 P/CH	C94	0.1/B	D14	1SV201-4
330P/CH	C69	47P/CH	C95	7V 10 (T)	D21	1SS184
0.001/B	C73	0.001/B		C-241	D23	KV1450TL00
47P/CH	C75	0.001/B	C96	0.1/B	D24	1SV201-4
0.22/R	C76	0.1/B			D26	1SS356
(3216) 16V	C77	1/F (3216)			D33	1SS226
0.047/B	C81	7V 10 (T)				
0.0047/B		C-241	D1	1SS356		
0.047/B	C82	0.1/B	D2	1SS356		
0.1/B	C84	0.1/B	D3	1SV201-4	Q1	2SC3127
0.001/B	C86	0.001/B	D4	1SV201-4	Q2	2SC3704
9P/CH	C87	10P/CH	D6	DAN235K	Q6	2SC3121
22P/CH	C91	68P/CH	D9	1SV201-4	Q7	2SC2712Y
1.01/B	C92	0.1/B	D11	1SS355		
170P/CH	C93	0.1/B	D12	1SS355		